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(54) MOTOR-DRIVEN TOOTH-BRUSH

(57) Abstract:

PURPOSE: To clean teeth with reciprocating motion and oscillating rotation by setting the stop position of an output section always at the same position, and by rotating the output section to be oscillated in a range in the fixed direction from the stop position, to bring the output section into contact with tooth faces at a proper angle.

CONSTITUTION: An oscillating guide 90 is a perpendicular linear section 90a, first, and is turned into a circular curve section 90b to be a rotary guide on the way, and with a stopper 90c, an oscillating guide projection 91 is stopped not to be rotationally moved furthermore. The most eccentric section of an eccentric shaft 44 is provided with a magnet 92, and the side of a main body 1 is provided with a Hall element 93 to be confronted with the magnet. The position of the magnet 92 of the

eccentric shaft 44 is detected by the Hall element 93, and a power source stopping switch is pushed and after that, the current of a motor 40 is controlled so that the magnet may come to the lowest end. When the stopping position of the output section is contrived to be set at the stroke end of linear reciprocating motion, then an oscillating rotational angle is turned clear, and the output section is easily brought into contact with sections between teeth and gum sections at a proper angle, and the gum sections are not harmed by turn over. With the eccentric shaft 44, a cam follower 46 and a driving shaft 4 are moved reciprocally and vertically, and with combined working, brush does not enter the sections between teeth.

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